

Purchase Order Receipt Listing

Tuesday, January 05, 2016 9:54:54 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO30784 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ MIRB Reject Qty	Book Amt
Vendor ID/Vendor Name VU-TW-M001 TW Metals											
PO30784	1		M304TR0.750W.049 f		1/5/2016	1/5/2016	100.0000		0.0000	0	\$0.00
USD	No		304 RD Tube .750 x .049W		100.0000	DCUSER			0.0000	0	
			m133914								
	2		M6061T6T0.3125W.058		1/5/2016	1/5/2016	24.0000		0.0000	0	\$0.00
	No		ALUM TUBE .3125 x .058w		24.0000	DCUSER			0.0000	0	
			m133914								
	3		M6061T6T0.625W.125		1/5/2016	1/5/2016	24.0000		0.0000	0	\$0.00
	No		6061-T6 RD Tube 0.625 X.125W		24.0000	DCUSER			0.0000	0	
			m133914								
	4		M6061T6T2.00W0.125		1/5/2016	1/5/2016	24.0000		0.0000	0	\$0.00
	No		6061T6 RD TUBE 2.00 X.125W		24.0000	DCUSER			0.0000	0	
			m133914								
	5		71401-45		1/5/2016	1/5/2016	1.0000		0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES		1.0000	DCUSER			0.0000	0	
			m133914								

Total Received Quantity: 173.0000
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$0.00
Total Balance Due Quantity: 0.0000



O'Neal High-Performance
Metals Group



PACKING SLIP

ORDER NO.: 60593091

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT: 64.302 REQ.DATE: 01/05/16 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 12/30/15
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO30784 RELEASE NO.:
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0001	36860 SMLS CD 304/L A269 3/4 OD X .049 WA		20' CL

ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
100.000 FT	100.000 FT	100.000 FT ✓	36.672	5

PART#: M304TR0.750W.049 ✓

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49330967 HT:YX1503612 PC: 5 CUSTOMER QTY: 100.000 UOM FT
MLT:CHINA MFG:CHINA SLB/CL:7-78

ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
24.000 FT	24.000 FT	24.000 FT ✓	1.310	2

0002 41723 D6061-T6 5/16 OD X .058 WA ✓ 12 FT ML

PART#: M6061T6T0.3125W.058

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49324038 HT:32704387 PC: 2 CUSTOMER QTY: 24.000 UOM FT
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:281022

ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
24.000 FT	24.000 FT	24.000 FT ✓	5.541	2

0003 42588 D6061-T6 5/8 OD X .125 WA ✓ 12 FT ML

PART#: M6061T6T0.625W.125

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00

SP 16-01-05

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.



O'Neal High-Performance
Metals Group



PACKING SLIP

ORDER NO.: 60593091

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA

NET WGT:

64.302 REQ.DATE: 01/05/16 CONFIRMED
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA

CN K6A 1K7

CN K6A 1K7

SALESPERSON: DONNA SMALLEY
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: PO30784

SHIP BY: 12/30/15
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION
PO:49330211 HT:F001858850001 PC: 2
MLT:UNITED STATES MFG:UNITED STATES

WIDTH
CUSTOMER QTY: 24.000 UOM FT
SLB/CL:218040

0004 44622 D6061-T6 2 OD X .125 WA

12 FT ML

ORD QTY
24.000 FT

INVOICE QTY
24.000 FT

SHIPPED QTY
24.000 FT

WT
20.779

PCS
2

PART#: M6061T6T2.00W0.125

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

Export License: NLR

Expiration Date: 0/00/00

RELEASE NO.:

RECEIVING PHONE:

available on our web site at www.twmetals.com. MSDS
the Technical Resources Tab, Product Statistics
MSDS's heading. If you do not have web site access
-1300 and we will mail or fax a copy of our current
n."

"TW Metals MSDS data is a
data can be found under t
& Data and the TW Metals
you may telephone 610-458
MSDS data to your location

CERTIFICATE OF CONFORMANCE

the material supplied on this purchase order and
number referenced above has been manufactured,
accordance with the material specification. These
Metals. Packaging material for shipments to Europe
manufactured wood products and complies with the
es for coniferous non-manufactured wood packing

erk *Cornell*

Date: 12/23/15

en exported from the United States in accordance
rol laws, export administrations regulations.
law prohibited.

"TW Metals certifies that
contained in the heat/lot
inspected, and tested in
records are on file at TW
and China consists of man
European emergency measur
material"

Authorized Test Report Cl

These commodities have be
with the U.S. export cont
Diversion contrary to U.S



O'Neal High-Performance
Metals Group



PACKING SLIP

ORDER NO.: 60593091

FROM: CRAN

PAGE 3

CUST NUMBER: 1203820 NET WGT:

64.302 REQ.DATE: 01/05/16 CONFIRMED

SOLD TO:

SHIP TO:

DART AEROSPACE LTD

DART AEROSPACE LTD

1270 ABERDEEN ST

1270 ABERDEEN ST

HAWKESBURY ON

HAWKSBURY ON

CANADA

CN K6A 1K7

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

DONNA SMALLEY

SHIP BY:

12/30/15

TERMS:

NET 30 DAYS

27 ENGLEHARD DRIVE

F.O.B.:

SHIPPING POINT

MONROE TWP

NJ 08831

CUST ORD NO.:

PO30784

VIA:

COMMON CARRIER

FREIGHT:

PREPAID

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury				Certificate No.: 15-8-138					
Contract No.: TWM P.O.No.: M49330967				Date of Issue.: 2015.8.31					
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-14/ASME SA213-13/ASTM A269-14 EAW							
Process: Cold Drawn		Delivery Condition: OD Polished to 240 Grit							
Steel Grade	Heat Number	Lot Number	Dimensions			Quantity			
						Pieces	Feet		
TP304/TP304L	YX1503-612	7-78	3/4" x 0.049" x 20'			350	7,000		
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.012	0.63	0.033	0.002	0.33	18.20	8.05	-	-
Product Analysis	0.024	0.65	0.033	0.003	0.37	18.18	8.37	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI) Rm			Yield Strength (PSI) Rp / 0.2%			
Requirements	≥35		≥75,000			≥30,000			
Test Results	63/64		93,000/94,000			36,000/37,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	76/78	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1221604

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

DAS
14
9-89

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**



By:

James Shi

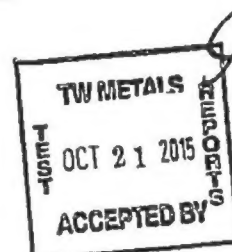
James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China





A COMPANY OF MUELLER INDUSTRIES

PRECISION TUBE CO.
287 WISSAHICKON AVE.
NORTH WALES PA 19454

Control No: 168215**

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.	CUST. ORD. NO.	PRECISION TUBE P/N
49324038 LINE 001	281022	24A031250580005
SOLD: TW METALS TO 27 ENGLEHARD DRIVE MONROE TWP, NJ 08831 UNITED STATES		SHIP: TW METALS TO 27 ENGLEHARD DRIVE MONROE TWP, NJ 08831 UNITED STATES

QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
3000 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P ASTM-B-210-12 AMS-WW-T-70076B LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3125 +.0030 -.0030 ID WALL .0580 +.0040 -.0040	3300 FT DAS 14 9-89 16/01/05	01/07/15

MECHANICAL PROPERTIES

SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	46,473	41,218	15		

TW METALS
TEST REPORT
JAN 08 2015
ACCEPTED BY

DESTRUCTIVE TESTS

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION

ALLOY: 6061		HEAT:		TRACEABILITY #:		32704387			
				RAW MATL VENDOR:		PT45444 - Kaiser Aluminum			
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Min	0.40		0.15		0.80	0.04			Rem.
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL									

OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2002/95/EU).

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

By: Art Onaitis
Art Onaitis
QA Manager

01/07/15
Page: 1 of 1

KAISER ALUMINUM FABRICATED PRODUCTS

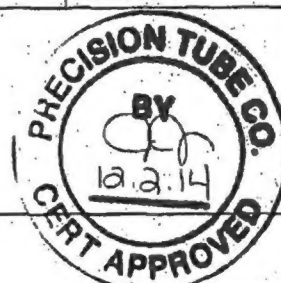
Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CUSTOMER PO NUMBER: PT45444		CUSTOMER PART NUMBER: SPIRIT-371850		PRODUCT DESCRIPTION: 5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT	
KAISER ORDER NUMBER: 317897	LINE ITEM: 001	SHIP DATE: 11/25/2014	KAISER LOT NUMBER: 50751-284	ALLOY: 6061	TEMPER: O
WEIGHT SHIPPED: 10618.000 LB	QUANTITY: 1933.000 PCS	B/L NUMBER: 004598	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 13.984 FT
SHIP TO: PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA			SOLD TO: MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA		



Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS(KSI)	YTS(KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
50751-284	0001	0001	19.5	8.7	19.8	N/A	N/A	N/A
50751-284	0001	0002	19.6	9.2	19.6	N/A	N/A	N/A
50751-284	0001	0003	19.3	8.7	20.3	N/A	N/A	N/A
50751-284	0001	0004	19.4	9.0	18.8	N/A	N/A	N/A
50751-284	0001	0005	19.7	9.1	19.3	N/A	N/A	N/A
50751-284	0001	0006	19.7	8.8	18.2	N/A	N/A	N/A
50751-284	0001	0007	19.5	9.3	19.9	N/A	N/A	N/A
50751-284	0001	0008	19.8	9.2	19.2	N/A	N/A	N/A
50751-284	0001	0009	19.2	8.6	19.9	N/A	N/A	N/A
50751-284	0001	0010	19.4	9.1	18.9	N/A	N/A	N/A
50751-284	0001	0011	19.7	8.7	21.4	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.0
F73891	.60	.30	.23	.05	.97	.06	.06	.02	.00	.00	.00	.02	.05
F73885	.60	.30	.23	.05	.97	.06	.05	.02	.00	.00	.00	.01	.02
F73887	.57	.30	.22	.05	.98	.07	.11	.02	.00	.00	.00	.01	.02

Applicable Requirements:

ASTM-B241-12 NON-STENCILED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I
UNS#A96061 Also conforms to EN 10204 3.1

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00011377
Kaiser Order Number: 317897
Line Item: 001

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

Jph

Plant Serial: 00011377
Kaiser Order Number: 317897
Line Item: 001

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49330211-1		CUSTOMER PART NUMBER: 42588		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: 218040	LINE ITEM: 001	SHIP DATE: 04/13/2015	KAISER LOT NUMBER: F00185885	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 366.000 LB	QUANTITY: 132.000 PCS	B/L NUMBER: 218440	DIAM/DAE/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00185885	0001	1	45.9	44.0	16.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D39623	.57	.26	.22	.04	1.01	.06	.01	.02	.00	.00	.00	.01	.02

Applicable Requirements:

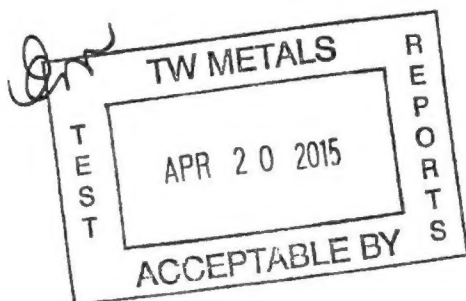
Description: OD: 0.6250", Wall: 0.1250", Round @
AMS-4082P AMS-WW-T-700/6B ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.

DAS
14
9-89

16/01/05

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).



Plant Serial: 00019096
Kaiser Order Number: 218040
Line Item: 001

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Linda Adkins, Quality Manager

Linda Adkins

Certified Inspection Report

Alcoa Forgings and Extrusions
Lafayette Operations
3131 East Main Street
Lafayette, IN 47905-7500



Alcoa, Inc.

Invoice To Customer
TW METALS INC
THE ARBORETUM SUITE 204
760 CONSTITUTION DR
EXTON, PA - 19341

Ship To Customer
TW METALS INC
27 ENGLEHARD DR
MONROE, NJ - 08831

Sales Order Number	Line	Customer P/O	Cert Number	Page
1000538251	No. 5.1	49325080-001 / ITEM 44622	AEPI687536	1/2
Quantity Shipped	LB	Date Shipped	29-JAN-15	Cert Print Date
592		29-JAN-15		02-FEB-15

Item Description	Item No.	Item No. Rev	Customer Part No
Drawn Tube OD X WALL 2.000 OD x 0.125 WALL 144 IN LN	6061 / T6		
Marking: CONTINUOUS; Oiling NO	W/F 0.866		
AMS4082 REV P	AMS-T-20000 REV B		
ASTM B210 REV 12	CP49-7.4.2-005 REV 8		
WW-T-700/6 REV F, AM2, NOT1	AS9100 REV C		
MMS1440 REV A			

Notes

The material for this order was melted and manufactured in USA.
COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement

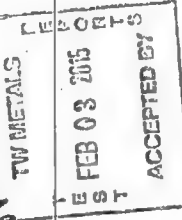
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

Melissa Griffith

Melissa Griffith
Quality Control Manager

29-JAN-15



Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Gross	Net
G17-PKG697548	20938907	15	PCS	166	156
G17-PKG705444	21104494	21	PCS	236	218
G17-PKG705445	21104494	21	PCS	236	218

Composition Limits

Alloy	Wt %	Si	Fe	Cu	Mn	Mg	Zn	Ti
6061	Min	0.40	0.7	0.15	0.15	0.8	0.25	---
	Max	0.8	0.7	0.40	0.15	1.2	0.25	0.15

Others Total

Alloy	Wt %	Others Each	Others Total
6061	Min	---	---
	Max	0.05	0.15

Composition Results

Heat / Cast / Lot Number	Si	Fe	Cu	Mn	Mg	Zn	Ti
7384-L2	0.6	0.10	0.28	0.02	0.9	0.01	0.02
7433-L15	0.6	0.23	0.26	0.04	0.9	0.04	0.02

Certified Inspection Report

Alcoa Forgings and Extrusions
Lafayette Operations
3131 East Main Street
Lafayette, IN
47905-7500



ALCOA

Sales Order Number		Customer P/O		Cert Number	Page
1000538251	Line No.	5.1	49325080-001 / ITEM 44622	AFP1687536	2/2
				29-JAN-15	Cert Print Date
				02-FEB-15	

Composition Results		Others Total	
Heat / Cast / Lot Number	Others Each		
7384-L2	--		
7433-L15	--		

Mechanical Property - Test Results		Test Type	UTS - L	TYS - L	EL 4D-Long
		UOM	KSI	KSI	PCT
		# of Tests			
Test Temper	Lot Number	Piece / Test ID	Results	Results	Results
T6	20938907	1-F	47.8	44.2	23.3
T6	20938907	2-R	47.3	43.8	24.0
T6	21104494	1-F	47.2	42.0	22.1

Other - Test Limits		Test Type	Dimensional
		UOM	
		# of Tests	
Test Temper	Lot Number	Min	Max
T6		P	
		SPEC LIMITS	

Other - Test Results		Test Type	Dimensional
		UOM	
		# of Tests	
Test Temper	Lot Number	Results	
T6	20938907	P	
T6	21104494	P	

Cert Notes

Made in USA

The test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate.

The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304
DATE 16/01/05

PO / BATCH NO 30784/133914

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 100'
QUANTITY INSPECTED 100'
QUANTITY REJECTED _____

THICKNESS ORDERED T. 750 X .0494
THICKNESS RECEIVED T. 750 X .0484
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY _____		
DATE <u>16/01/05</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061T6
DATE 16/01/05

PO / BATCH NO 30784/133914

MATERIAL CERTIFIED yes
QUANTITY RECEIVED 24'
QUANTITY INSPECTED 24'
QUANTITY REJECTED _____

THICKNESS ORDERED T. 3125 X .0584
THICKNESS RECEIVED T. 3125 X .0584
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY <u>14</u>	SIGNED OFF BY _____
DATE <u>16/01/05</u>	DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061T6
DATE 16/01/05

PO BATCH NO 30784/133914

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 24'
QUANTITY INSPECTED 24'
QUANTITY REJECTED _____

THICKNESS ORDERED .625X .025W
THICKNESS RECEIVED .625X .125W
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY _____		SIGNED OFF BY _____	
DATE <u>16/01/05</u>		DATE _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6
DATE: 16/01/05

PO / BATCH NO: 30784/133914

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 24'
QUANTITY INSPECTED: 24'
QUANTITY REJECTED: _____

THICKNESS ORDERED: 2.00X.125W
THICKNESS RECEIVED: 2.00X.125W
SHEET SIZE ORDERED: _____
SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____		
DATE: <u>16/01/05</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30784

Purchase Order Date 12/18/2015

PO Print Date 12/18/2015

Page Number 1 of 3

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.750W.049	304 RD Tube .750 x .049W	1/5/2016 Yes 1/5/2016		100.00 f	\$2.10	\$210.00
MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269							
Line Total:							\$210.00
2	M6061T6T0.3125W.058	ALUM TUBE .3125 x .058w	1/5/2016 Yes 1/5/2016		24.00 f	\$2.50	\$60.00
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241							
Line Total:							\$60.00

8 16-01-05

Note:

12/18/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30784

Purchase Order Date 12/18/2015

PO Print Date 12/18/2015

Page Number 2 of 3

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

3	M6061T6T0.625W.125	6061-T6 RD Tube 0.625 X.125W	1/5/2016	24.00	✓	\$5.15	\$123.60
		Yes	1/5/2016	f			

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

Line Total: \$123.60

4	M6061T6T2.00W0.125	6061T6 RD TUBE 2.00 X.125W	1/5/2016	24.00	✓	\$8.50	\$204.00
		Yes	1/5/2016	f			

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

Line Total: \$204.00

Note:

12/18/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30784**

Purchase Order Date 12/18/2015

PO Print Date 12/18/2015

Page Number 3 of 3

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

5	71401-45	PROCUREMENT QUALITY CLAUSES	1/5/2016	1.00	\$0.00	\$0.00
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Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

No
1/5/2016

2016-01-05

Line Total: \$0.00

PO Total: \$597.60

cl u

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 12/18/2015